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**New pressurised device for the distribution of a mousse - comprising a transparent bottle containing a transparent composition**

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### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
FR 2753373	A1	19980320	FR 9611317	A	19960917	199821	B
WO 9811868	A1	19980326	WO 97FR1607	A	19970911	199821	

**Priority Applications (Number Kind Date):** FR 9611317 A ( 19960917)

### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
FR 2753373	A1		16	A61K-007/48	
WO 9811868	A1			A61K-007/50	
Designated States (National): CA JP KR PL RU US					
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### Abstract:

FR 2753373 A

New pressurised device (I) comprises a pressurised bottle(II) fitted with a nozzle for the distribution of a mousse consisting of a transparent composition (III) comprising 0.5-10 wt.% of a propellant gas (IV) and 90-95.5 wt.% of an aqueous composition (V) comprising at least one emulsifying non-ionic surfactant (VI), at least one thickening non-ionic surfactant (VII) and at least one anionic surfactant (VIII).

USE - (I) is used as an aerosol containing a cosmetic or dermatological composition to clean the skin or remove make-up.

ADVANTAGE - (II) and (III) are transparent but without the disadvantages of similar products prepared in accordance with prior art (in particular, (III) preferably contains neither a 1-3C mono-alcohol nor a di-alkyl ether).

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## CLAIMS

1. Pressurized device comprising
  - 5 (i) a pressurized bottle equipped with a dispensing head,
  - (ii) a transparent single-phase composition comprising
    - A - 0.5 to 10% by weight of a propellant gas,
    - 10 B - 90 to 99.5% by weight of an aqueous composition comprising nonionic surfactants and anionic surfactants,this device being capable of dispensing a mousse when the dispensing head is actuated, characterized in that
- 15 the composition B comprises:
  - (a) at least one nonionic emulsifying surfactant chosen from those having an HLB of between 12 and 18,
  - (b) at least one nonionic thickening
  - 20 surfactant chosen from:
    - a - C<sub>1</sub>-C<sub>6</sub> alkanolamides of C<sub>8</sub>-C<sub>22</sub> alkyl ether carboxylic acids;
    - b - addition products of 10 to 300 mol of ethylene oxide or of propylene oxide with partial esters of
    - 25 polyols having 2 to 16 carbon atoms and of fatty acids having 12 to 22 carbon atoms;
    - c - polyoxyethylenated and/or polyoxypropylenated and/or polyglycerolated C<sub>12</sub>-C<sub>22</sub> fatty alcohols comprising from 20 to 500 ethylene oxide and/or
    - 30 propylene oxide and/or glycerol residues;
    - d - C<sub>12</sub>-C<sub>22</sub> fatty esters of polyoxyethylene and/or polyoxypropylene and/or polyglycerol;
    - e - polyethylene glycol and/or polypropylene glycol block polymers, and
  - 35 (c) at least one anionic surfactant.
2. Device according to Claim 1, characterized in that the pressurized bottle is transparent.
3. Device according to either one of the preceding claims, characterized in that it comprises from 1.5 to

6% by weight of propellant gas with respect to the total weight of the composition.

4. Device according to any one of the preceding claims, characterized in that the propellant gas is  
5 chosen from hydrocarbonaceous gases having 2 to 6 carbon atoms.

5. Device according to any one of the preceding claims, characterized in that the composition B has a Brookfield viscosity at 25°C of between 5 and  
10 200 mPa·s.

6. Device according to any one of the preceding claims, characterized in that the composition B has a Brookfield viscosity at 25°C of between 10 and 150 mPa·s.

15 7. Device according to any one of the preceding claims, characterized in that the aqueous composition B comprises 1 to 25% and preferably 3 to 12% by weight of at least one nonionic emulsifying surfactant.

8. Device according to any one of the preceding  
20 claims, characterized in that the aqueous composition B comprises 0.5 to 30% and preferably 1 to 6% by weight of at least one nonionic thickening surfactant.

9. Device according to any one of the preceding claims, characterized in that the emulsifying  
25 surfactant is chosen from the addition products of 1 to 200 mol of ethylene oxide or of propylene oxide with partial esters of polyols having 2 to 16 carbon atoms and of fatty acids having 12 to 22 carbon atoms.

10. Device according to Claim 9, characterized in  
30 that the emulsifying surfactant has a degree of esterification of less than or equal to 2.

11. Device according to any one of the preceding claims, characterized in that the aqueous composition B comprises at least two thickening surfactants each  
35 belonging to two different families chosen from the families 'a' to 'e'.

12. Device according to any one of Claims 9 to 11, characterized in that the polyols are chosen from glycol, glycerol, glucose, fructose, maltose, ribose,

oxyethylenated (20 EO) sorbitan monooleate,  
oxyethylenated (20 EO) sorbitan trioleate,  
oxyethylenated (20 EO) sorbitan monopalmitate,  
oxyethylenated (20 EO) sorbitan monostearate,  
5 oxyethylenated (20 EO) sorbitan monolaurate,  
oxyethylenated (20 EO) sorbitan undecylenate,  
oxyethylenated (18 EO) sorbitan undecylenate,  
oxyethylenated (6 EO) sorbitan hexastearate,  
oxyethylenated (44 EO) sorbitan monolaurate,  
10 oxyethylenated (30 EO) sorbitan tetraoleate,  
oxyethylenated (4 EO) sorbitan monostearate,  
oxyethylenated (40 EO) sorbitan oleate, oxyethylenated  
(4 EO) sorbitan monolaurate, oxyethylenated (10 EO)  
sorbitan monolaurate, oxyethylenated (40 EO) sorbitan  
15 tetraoleate, oxyethylenated (3 EO) butyl glucoside  
cocoate, oxypropylenated (20 PO) methyl glucoside  
distearate, oxyethylenated (20 EO) methyl glucoside  
monolaurate, oxyethylenated (20 EO) methyl glucose  
benzoate, castor and sucrose oxyethylenated (1.4 EO)  
20 triglyceride esters, castor and sucrose oxyethylenated  
(2 EO) triglyceride esters, oxyethylenated (20 EO)  
methyl glucose sesquistearate, oxyethylenated (20 EO)  
methyl glucose distearate, oxyethylenated (4 EO)  
butanediol monostearate, polyethylene glycol (50 EO)  
25 monostearate, polyethylene glycol distearate,  
polyethylene glycol (8 EO) myristate, polyethylene  
glycol (8 EO) monostearate, polyethylene glycol (20 EO)  
monostearate, polyethylene glycol (6 EO) laurate,  
polyethylene glycol (8 EO) distearate, polyethylene  
30 glycol (8 EO) dilaurate, polyethylene glycol (8 EO)  
monooleate, tetraethylene glycol diheptanoate,  
polyethylene glycol (8 EO) dioleate, polypropylene  
glycol (26 EO) oleate, polyethylene glycol (30 EO)  
dipolyhydroxystearate (6 hydroxy), polyethylene glycol  
35 (40 EO) stearate or polyethylene glycol (8 EO)  
dilaurate.

15. Device according to any one of the preceding  
claims, characterized in that the aqueous composition B

comprises from 2 to 12% and preferably from 4 to 10% by weight of anionic surfactant.

16. Device according to any one of the preceding claims, characterized in that the aqueous composition B  
5 comprises at least two anionic surfactants.

17. Device according to Claim 16, characterized in that the aqueous composition B comprises at least one foaming anionic surfactant and at least one mild anionic surfactant.

10 18. Device according to any one of the preceding claims, characterized in that the aqueous composition B additionally comprises at least one alkylpolyglucoside.

19. Device according to any one of the preceding claims, characterized in that the aqueous composition B  
15 comprises 0.01 to 10% and preferably 1 to 6% by weight of at least one alkylpolyglucoside.

20. Device according to any one of the preceding claims, characterized in that the composition comprises a mineral water and/or a thermal water.

20 21. Device according to any one of the preceding claims, characterized in that the composition additionally comprises at least one adjuvant chosen from preservatives, antioxidants, fragrances, screening agents, colorants, or hydrophilic or lipophilic active  
25 principles.

22. Device according to any one of the preceding claims, characterized in that the composition additionally comprises at least one  $\alpha$ -hydroxy acid.

23. Device according to any one of the preceding  
30 claims, characterized in that the composition is suitable for cleansing and/or for caring for human skin.

# Translator's Report/Comments

Your ref: G027513PT/CPM/SMT

Your order of (dat ):

In translating the above text we have noted the following apparent errors/unclear passages which we have corrected or amended:

Page/line*	Comment
11/14	"balance HLB" → "HLB"
11/21	"g" → "c"
12/35	"C13, C15" → "C <sub>13</sub> , C <sub>15</sub> "
12/38-9	"les triglycérides ... (40 OE)" - incomplete.
12/40	"l'alcool dodécanediol" → "le dodécanediol"
13/2	"), )," → "),"
13/15	"oxyéthyléné" → "oxyéthylénés" (cf. 12/37).
13/23	"l'oléate" - possibly a mistake for "le dioléate".
13/33	"col oxyéthyléné" → "col"
13/33	The number of EO units is not given after "glycol".
13/35	"laurate" - possibly a mistake for "dilaurate".

\* This identification refers to the source text. Please note that the first paragraph is taken to be, where relevant, the end portion of a paragraph starting on the preceding page. Where the paragraph is stated, the line number relates to the particular paragraph. Where no paragraph is stated, the line number refers to the page margin line number.